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PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
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			DATE MAILED: 01/02/200/	1

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Applicating Application No. OR/955,809 DONATIET AL.							
Examiner Emmanuel Bayard 2531 - The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Exemision of time may be available under the provisions of 37 CFR 1.136(a). In one evail, however, may a may be timely filed Expension of time may be available under the provisions of 37 CFR 1.136(a). In one evail, however, may a may be timely filed If the period for reply is pecified above, the maximum statutory period will apply and will appre 18 (x) (8) MONTH'S from the mailing date of this communication. If the period for reply is pecified above, the maximum statutory period will apply and will appre 18 (x) (8) MONTH'S from the mailing date of this communication. If the period for reply is pecified above, the maximum statutory period will apply and will appre 18 (x) (8) MONTH'S from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will appre 18 (x) (8) MONTH'S from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will apply		Application No.	Applicant(s)				
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DETAILED ACTION

1. This is in response to amendment filed on 10/1/03 in which claims 1-30 are pending. The applicant's amendments have bee fully considered but they are most based on the new ground of rejection therefore this case is made final.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 5-6, 9, 12-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 5 and 15 recites the limitation "the variation speed" in line 3, respectively. There is insufficient antecedent basis for this limitation in the claim
- 5. Claim 9 recites the limitation "the selection of some of said options" in line 2. There is insufficient antecedent basis for this limitation in the claim.
- 6. Claim 9 recites the limitation "the specified option" in lines 4-5. There is insufficient antecedent basis for this limitation in the claim.
- 7. Claim 12 recites the limitation "the power level" in line 28. There is insufficient antecedent basis for this limitation in the claim.
- 8. Claim 14 recites the limitation "said interface means" in lines 2-3. There is insufficient antecedent basis for this limitation in the claim.

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9. Claim 20 recites the limitation "said duration" in line 3. There is insufficient antecedent basis for this limitation in the claim.

Claims 6, 13, 15-19 and 21 are likewise rejected because they depend on a base rejected claim.

Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 22-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor et al U.S. Patent No 5,764,693 in view of Minark U.S. Patent NO 6,018,644.

As per claims 22 and 27, Taylor discloses method for generating a test signal to be applied to a radio frequency receiver having N intelligent antennas, comprising the steps of: obtaining N digital signals (see figs 1-2 elements 19, 23 and col.6, lines 59-67), each digital signal replicating a digital multi carrier signal having phase-modulated carriers, reconstructing N broadband signals by performing digital-to analog conversion (see figs. 1-2 elements 28, 29 and col.7, lines 25-67) and broadband filtering on the N digital signals (see figs. 1-2 elements 30-31); obtaining N broadband radio frequency signals by performing radio frequency conversion on the reconstructed N broadband signals (see figs. 1-2 elements 33-34 and col.7, lines 27-67); amplifying the N

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broadband radio frequency signals (see figs. 1-2 element 42 and col.7, lines 63-65); and applying the amplified N broadband to input of the receiver (see figs. 1-2).

However Taylor does not teach applying the amplified N broadband to input of the receiver, the N inputs bypassing the N intelligent antennas of the receiver.

Minarik teaches applying the amplified N broadband to input of the receiver, the N inputs bypassing the N intelligent antennas of the receiver (see figs.5-8 elements 130-134, 404, 406 and col.13, lines 5-67).

It would have been obvious to one of ordinary skill in the art to implement the teaching of Minarik into Taylor as to minimized the power loss in the received channel as taught by Minarik (see col. 10, lines 39-40).

As per claim 23 Taylor would include, wherein the obtaining step obtains the N digital signals based on parameters defining a scenario concerning at least one useful transmission signal and one or more isofrequential interferent signals, the isofrequential interferent signals having simulated arrival directions generally different from those of said relevant useful signals so that different variations of the receive and transmit channel would be provided by using different combination of power combiners and power splitters.

As per claim 24 Taylor would include, wherein the steps are repeated at time intervals of a same duration, using new parameters to obtain the N digital signals, thus giving dynamic and recurrent characteristics to said simulated scenario.

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As per claim 25, Taylor would include, wherein the same duration is substantially equal to, or lower than, 4.61 ms as to accurately reduce noise and error at the output of the signal.

As per claim 26, Taylor would include, wherein the parameters take into account the presence of noise, a Doppler effect due to the speed of transmitting mobiles, and quick and sudden fading of a received electromagnetic field, caused by multiple paths destructive interference or by masking by obstacles encountered by mobiles in movement as to acquire the original signal at the output of the system.

As per claim 28, Taylor would include, means for obtaining said N digital signals from control messages at sequential intervals of identical duration, said control messages being used to generate a phase-modulated radio frequency test signal as to accurately identify the original digital signal.

As per claim 29 Taylor would include, means for storing tables of parameters defining a simulated scenario; and means for converting said tables of parameters to obtain said control messages as to generate a digital replicate signal similar to the original signal

As per claim 30, Taylor would include, wherein the stored tables include, parameters simulating at least one of: presence of noise, a Doppler effect due to speed of mobiles, and fading of a received electromagnetic field as to acquire the original signal at the output of the system.

Allowable subject matter

12. Claims 1-4, 7-8, 10-11 are allowed over the prior art of record.

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- 13. Claims 5-6, 9 and 13-21 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 14. Claim 12 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter: the present invention teaches a simulation process for obtaining a phase modulated radio frequency test signal. The closest prior arts of Taylor et al U.S. Patent No 5,764,693, Minarik U.S. Patent NO 6.018,644, Dent U.S. Patent No 6,185,259, Moriyama U.S. Patent No 6,483,880 B1 and Lu U.S. Patent No 6,025,758 teach a similar simulation process. However the closest prior arts mentioned above fail to anticipate or render obvious all the recited features claims 1 and 12.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

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1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is (703) 308-9573. The examiner can normally be reached on Monday-Thursday from 8:00 AM - 5:30 PM. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour, can be reached on (703) 306-3034. The fax phone number for this Group is (703) 872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3800.

Emmanue Bayard

Primary Examiner

December 24, 2003